9/29/2017 question1

```
In [77]:
from sklearn.neural_network import MLPClassifier
In [78]:
X = [[0, 0], [0, 1], [1, 0], [1, 1]]
In [79]:
y = [0, 1, 1, 0]
In [95]:
clf = MLPClassifier(hidden_layer_sizes=(4, 2),solver='lbfgs', alpha=1e-5,
max_iter=5000, random_state=1)
In [96]:
clf.fit(X,y)
Out[96]:
MLPClassifier(activation='relu', alpha=1e-05, batch_size='auto', beta_1=0.
       beta_2=0.999, early_stopping=False, epsilon=1e-08,
       hidden_layer_sizes=(4, 2), learning_rate='constant',
       learning_rate_init=0.001, max_iter=5000, momentum=0.9,
       nesterovs_momentum=True, power_t=0.5, random_state=1, shuffle=True,
       solver='lbfgs', tol=0.0001, validation_fraction=0.1, verbose=False,
       warm_start=False)
In [97]:
clf.score(X,y)
Out[97]:
1.0
In [98]:
clf.predict(X)
Out[98]:
array([0, 1, 1, 0])
In [ ]:
In [ ]:
```